

Ejercicio1sec3.4grossman2ed.

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determine el producto cruz $u.v$

$$u = i - 2j; v = 3k$$

```
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| Sage Version 3.4, Release Date: 2009-03-11 |  
| Type notebook() for the GUI, and license() for information. |  
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```

Sage Version 3.4, Release Date: 2009-03-11

```
sage] u=vector([1,-2,0])
```

```
sage] v=vector([0,0,3])
```

```
sage] u
```

$(1, -2, 0)$

```
sage] v
```

$(0, 0, 3)$

```
sage] u.cross_product(v)
```

$(-6, -3, 0)$

el resultado final es $-6i - 3j$

```
sage]
```